

ABSTRACT OF THE DISCLOSURE

A noise filter of the present invention includes an inductor and a resistor connected in parallel with each other.

5 A power supply frequency current does not bypass the resistor but passes through the inductor with no loss. On the other hand, a high frequency noise current including a resonance frequency current, does not bypass the inductor but is dissipated at the resistor. Therefore, the noise filter does

10 not charge noise power and so does not suffer from a problem due to power discharging. The resonance frequency current caused by the noise filter and the earth capacitance is also dissipated at the resistor. Therefore, no problem is caused by the resonance frequency current.